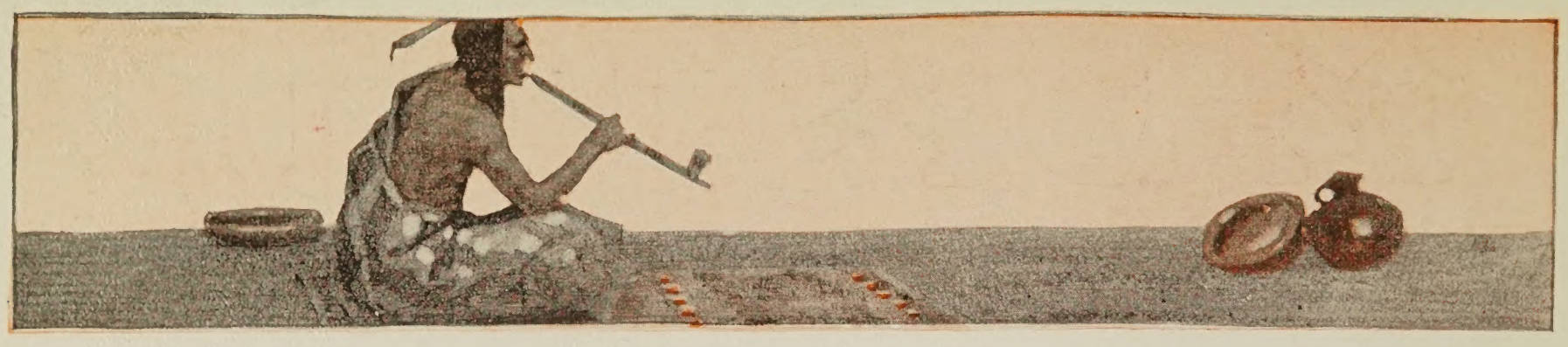
MOISTAIR

THE HEATING SYSTEM THAT SAFEGUARDS HEALTH

Columbus Builders Supply Co.
145 North Front St., Columbus



Moistair! a Vital Health Essential of the Heating and Ventilating System for the Home

To deliver into your home pure, warm air, free from dust, gas, and smoke, is not sufficient. Health, comfort, and life itself are dependent on moisture. The principle of gravity warm-air heating, as represented in the Round Oak Moistair Heating System, is undoubtedly the nearest to nature's way of heating and ventilating, of any mechanical device.

Exhaustive laboratory tests emphasize the supreme importance of maintaining a sufficient amount of moisture in the air, also that it is quite as important to freely circulate the air.

Any heating system that fails to accomplish these two important purposes, is not only inefficient, but a positive and constant menace to the health and comfort of the family, as well as to the finish of the furniture in the rooms.

In bringing air into contact with a heated surface, its capacity for holding moisture is increased. The amount or percentage of moisture in the air in any room is called the relative humidity, and is measured by the use of a little instrument called the hygrometer. The use of this instrument has enabled the Round Oak Folks to determine how much moisture should be added to the air, during the process of heating, in order to safeguard health and comfort. This the Round Oak Moistair Heating System does automatically.

The Round Oak humidifier is a part of the regular equipment of every Round Oak Moistair Heating System. It is one of the first things to look for. This is a part of your insurance policy of health and comfort. Through careful experimenting the most favorable size and location for the water pan has also been worked out scientifically by the Round Oak Folks.

Compare this complete equipment, from the standpoint of satisfactory humidity, with the ordinary furnace or steam or hot-water apparatus. You will discover (by the use of a hygrometer), with these latter, that the percentage of moisture is far below that standard demanded by health and comfort. Verify this from your family physician or write the Round Oak Folks for detailed explanation and proof, cheerfully sent without expense or obligation.

Not only does the maintaining of the proper percentage of moisture safeguard health and comfort, but it is one of the factors that assure fuel economy. Rooms heated by the Round Oak Moistair Heating System to a temperature of 68 degrees, are quite as comfortable as those heated to 75 degrees by the ordinary furnace or steam or hot-water plant, where the percentage of humidity is low.

Note carefully that this difference represents not only a material saving in fuel, otherwise required to raise the temperature these seven degrees, but it is a positive aid to health and comfort.

This cannot be realized by the installation of the average furnace or by any ordinary method, using radiators.

It will be realized by the correct installation of the Round Oak Moistair Heating System, under the direction of our accredited representatives.

ENGINEERING AND RESEARCH DEPARTMENT
OF THE ROUND OAK FOLKS.

What Others Say

Carl P. Jones, Otsego, Mich., says:

"The Round Oak Moistair Heating System, which I have in my home, is certainly all that is claimed for it. The Moistair System was installed in accordance with plans furnished by your engineering department and now provides us with a reliable, steady flow of heat. I find that same operates with much less attention and greater economy than any heating system I had used before.

"In the purchase of the Moistair System one receives a heaping measure of convenience and service, or as some one said, 'The memory of quality remains long after the price is forgotten.'"

P. W. Schock, Blue Springs, Nebr., says:

"I have used one of your Round Oak Moistair Heating Systems for fourteen years, and am satisfied with it in every particular. Have never had to replace any grates and the heater is in fine condition to-day; nor have I replaced any of the fire box, and have never been bothered with any smoke, dust, or gas. Could recommend it to anybody in need of a heater."

August Rasmas, Conrad, Ia., says:

"I am pleased with the Round Oak Moistair Heating System bought of your agent. It is a powerful heater, a great saver of fuel, and can be *controlled just like a Round Oak Stove.*"

The Round Oak Folks Make Good Goods Only
Stoves · Ranges · Heaters

The Round Oak Moistair Heating System

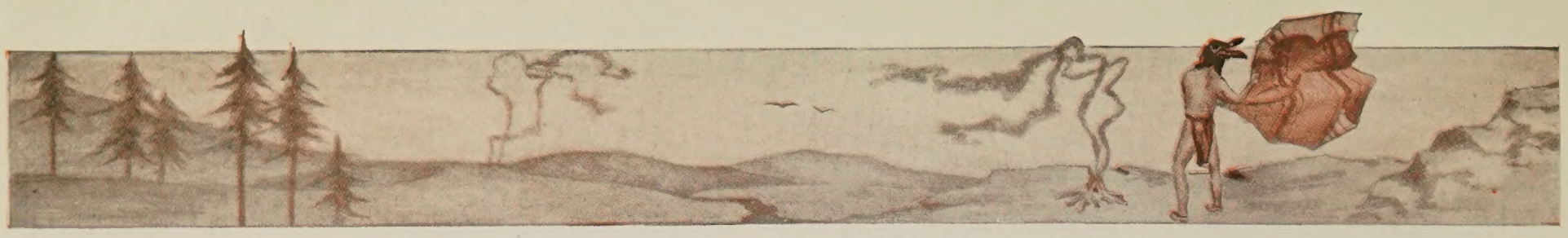
Manufactured by

The Beckwith Company

Dowagiac, Michigan

Copyright, 1918, by The Beckwith Company

This system is within your buying power, yet millionaires cannot secure a more luxuriously comfortable, healthfully and economically warmed home. The evidence follows



Nature's Own Way

WHEN NATURE planned to provide heat for this old world, she, in all wisdom, realized that heat *alone* would be *injurious to vegetable and animal life*. Hence together with heat she provided moisture and ventilation! She gave us the sun, that great warm-air heater. She then distributed the various bodies of water on the earth's surface, so that "Nature's heater" would have a water pan with which to supply us with moisture. The next step was ventilation; so breezes were created that we might have fresh air to breathe. Neither animal nor vegetable life could live with just heat. Moisture and ventilation are positively necessary.

So, in considering the healthful warming of your home, what better way could there be than Nature's way? And wholly in accordance with Nature's way is the correct installation and use of the Round Oak Moistair Heating System.

Here Is Convincing Evidence

"It is well worth while for every man and woman to understand that an abundance of fresh air is not merely theoretically a good thing, which is to be accepted if it comes in his way, but that it is a necessity for the preservation of health and happiness, and that it is worth taking special pains to procure. It is also important that those who form and direct public opinion on this subject—physicians, architects, engineers clergymen, teachers, school trustees, and legislators—should give more attention to this subject than they have heretofore done, and should look to it that the buildings which they plan, erect, or manage, are so constructed and arranged that no one should poison himself or others by the air which he expires."—John S. Billings, A. M., M. D., in "Ventilating and Heating."

"*Rouse yourselves!* Consider that God has given us an atmosphere of pure, salubrious, health-giving air—ventilate your houses!"—Professor A. J. Downing, in "Rural Essays."

"Under no circumstances should a room or an office be heated exclusively by direct radiation from exposed hot-water or steam-heated radiators or pipes. It is one of the most unhealthful, killing systems in existence."—Lewis W. Leeds, Consulting Engineer of Ventilation and Heating for United States Treasury Department, in "Proceedings of Franklin Institute."

"I have noted that direct steam and hot-water heating have an unfavorable effect upon health, and this is particularly marked in diseases of the lungs, throat, and respiratory passages. I attribute this unhealthful condition to the lack of proper ventilation and moisture in rooms thus heated. Living rooms should be heated by pouring untainted warm air into them, and in no other way."—C. H. Shearer, M. D.

The Round Oak Moistair Heating System not only generates pure, warm, moist, health-giving air, but freely circulates and provides an ever-changing atmosphere in every room. Compare this super-service with any other system of home warming.

ENGINEERING DEPARTMENT, THE BECKWITH COMPANY.

A Frank Talk with You on That Very Important Subject, What System of Heating Is Really Superior?

The comfort and health of yourself and those entrusted to your care, are of *vital importance*

In this relation perhaps there is no greater influence than your heating equipment.

You owe it to yourself to have the most healthful, comfortable, durable, and efficient heating system produced.

How may you know when you have discovered this system? That is the question.

You will readily agree that this perfected system should represent a good business investment; should add to the value of your property more than the amount represented in its purchase; should deliver pure, moist, ever-changing air, free from dust, smoke, and gas; should circulate the air freely and rapidly; should be perfect in control, yet simple to operate; should be *durable;* should be economical; should burn all standard fuels suitable for domestic heating plants; should be cleanly; should be sanitary.

These, and no less, should or could satisfy your demands.

All these you have a right to demand. We propose presently to show that you will secure all these in the selection of the Round Oak Moistair Heating System, installed in the Round Oak way.

You will not accept this statement without detailed proof. Too much is at stake to hope or guess that *any* system will measure up to this standard, without clear and definite proof.

That is why you are asked to read carefully the following explanation of this equipment—then examine the system itself.

Your best judgment will then place your unqualified O. K. on this system, and you will have one installed, we believe, this season. Then you will know the happy combination of a good business investment, together with health and comfort.

What Others Say

Robert E. Wilkinson, Kenosha, Wis.

"It gives me great pleasure to inform you that the Round Oak Moistair Heating System you installed in my home three years ago, has proved eminently satisfactory, it having done even more than you claimed for it, my coal bill having been *reduced about one-third.*"

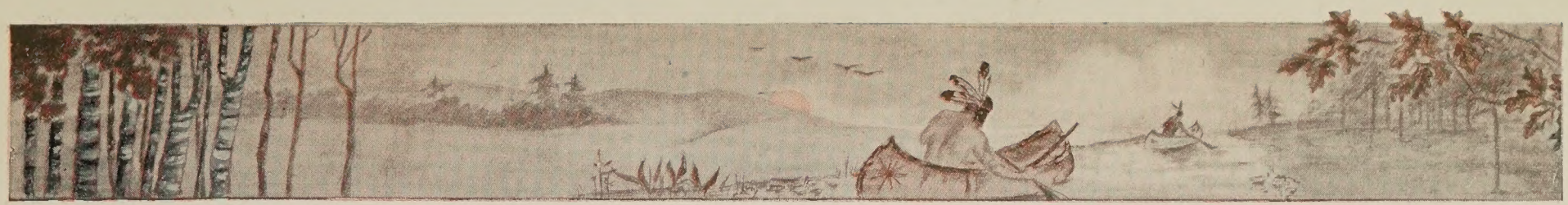
"A Good Name Is Rather to Be Chosen"

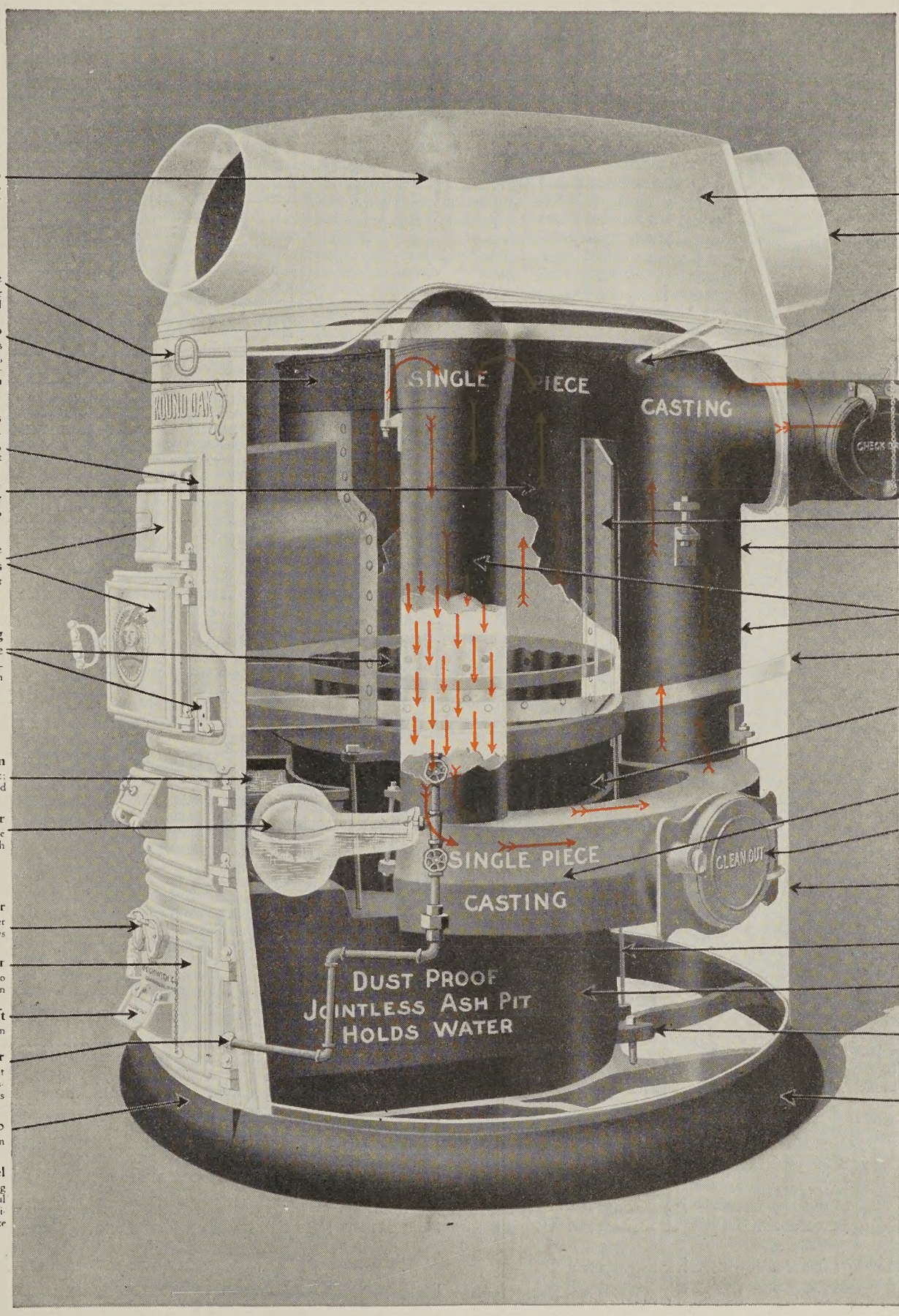
You are strongly influenced by the reputation of the articles you buy, so for safety's sake you preferably choose the ones with which you are familiar. Naturally you question an unknown brand.

In the stove world, the Round Oak enjoys an enviable position. It has been copied, both in name and similarity of construction. For more than two generations the original high standard has been jealously maintained, both in quality of material and workmanship, so that to-day it is still conceded to be *supreme.* Perhaps you were raised beside one—certainly some of your friends have told you of its excellent features.

The heating system bearing this name, and produced in the same foundry, must measure up to the same high standard.

You no doubt feel confident of its merits before you examine its many exclusive improvements; however, you are not asked to let this important factor determine your choice. Let only the genuinely superior advantages of the system itself convince you.





Inside Inverted Cone Deflector (and heat insulator) Distributes warm moist air to pipes equally

Direct Damper Handle Used when starting the fire or putting in fresh fuel

Main Top A one-piece casting that turns the flame over solid shoulders, instead of over joints—permanently dust- and gas-tight

Doorframes Cast on—not bolted on—permanently prevents leakage of gas, smoke, and dust

Oversize Combustion Chamber Full size to the top

Extra-Large, Double Feed Doors Ground and fitted gas-tight

Hot-Blast Lining and Air Intake Burns gases in soft coal—aids combustion

Water Pan Placed just right; humidity-controlled

Automatic Humidifier Insures constant and ample humidity—safeguards health Outside the casing.

Shaker Door Construction assures proper position of grates—always

Ash-Pit Door Ground and fitted gas-tight to doorframe—cast on

Ash-Pit Draft Stimulates Combustion

Ash-Pit Sprinkler Eliminates dust in taking out ashes—promotes better combustion—helps prevent clinkers

Cast Lip Holds heater in position

Fire Travel inside the casing extremely long and forces a very powerful radiation of heat—minimizing waste

Casing Top

Casing Collar For warm-air pipes

Direct-Draft Damper Fitted permanently gas-tight

Smoke-Pipe Collar Cast iron—indestructible and adjustable to four positions

Check Draft Cast iron—ample—efficient—ground face

Cast-Iron Braces Riveted to boiler-iron body—a "supersafety" feature

All Three Flues Fitted over slip joint—gas-tight—constitute longest fire travel—all inside the casing

Entire Flue System Suspended from cast one-piece cop—expansion does not affect it

Casing Ring

Fire Pot That is extra-deep and straight—mightily efficient

One-Piece Horseshoe Radiator Permanently tight

Clean-Out Doors Readily accessible and ground gas-tight

Three-Ply Casing Minimizes friction inside of casing and minimizes loss of heat by radiation into basement

Braced at Every Point Never requires resetting

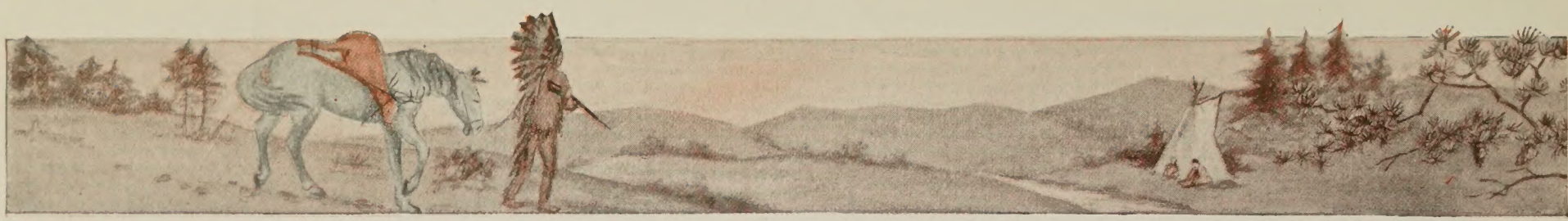
Seamless Ash Pit Single-piece casting—no leakage of air possible—holds water

Alignment Device Heater requires no cement to line up

Base Ring Cast in one piece—supports heater—assures free passage of air

An X-Ray View of the Round Oak Moistair Heating System

This illustration shows the many exclusive points of advantage offered by the Round Oak Moistair Heating System. The colored arrows show the long fire travel—one of the four positive Round Oak economy features



A Generation of Experience

For more than a generation the Round Oak Folks have produced this system, and each succeeding year has seen some progressive improvement.

For more than a generation, this system has shown a continuous advancement toward the standard of *perfect efficiency.*

Some years ago, to *verify* the tests and experiments of their heating engineers, several Round Oak Moistair Heating Systems were placed in the laboratories of one of the leading universities of America, and subjected to a series of exacting, extended, and impartial tests.

Only one improvement was suggested, and that a very minor one. This was corrected, and to-day this system stands approved, not only by its more than 80,000 users, not only by the Engineering Department of the Round Oak Folks, but by many of the recognized leading heating engineers of America.

We ask you to pass your personal judgment on this system *only* when you have made a careful personal investigation of the system itself.

Immediate and Continuous Economy Proved

We propose to prove first, *positive fuel economy over other heating systems.*

There are four known ways of saving fuel:

First, is air-tight construction. In the course of time, the ordinary heater leaks air below the fire. You can no longer control the fire, and when you cannot control the fire, certainly you cannot save fuel. It is certain that the Round Oak one-piece ash pit, which has no joint, will give you permanently better control of the fire than the jointed ash pits of other constructions. Two-piece ash pits always in time open up. With the Round Oak one-piece—never! Carefully investigate this claim and see for yourself why the Round Oak assures permanent control. This means a continuous saving in fuel because of the continuous control of the fire.

The second way to save fuel, is to secure complete combustion. Complete combustion means the preventing of unburned coal from going through the grates, and unburned gases from going out of the chimney. The deeper, straighter fire pot and improved Round Oak grates, prevent unburned coal from getting into the ash pit. The Round Oak ring hot blast, over-sized combustion chamber, and longer fire travel, prevent the unburned gases from going out of the chimney. A series of tests made by Prof. John R. Allen, formerly of the University of Michigan, showed that the Round Oak Moistair Heating System has a combustion efficiency equal to the results obtained in the most modern of Edison power plants. Such results are absolutely impossible with the ordinary heating system. Bear in mind that the Round Oak burns all fuels successfully and economically.

The third way of saving fuel, is by the more complete radiation of heat inside the casing. The Round Oak Moistair Heating System possesses a supremely effective radiation surface above the grate line. There is a powerful radiation of heat from the deep, narrow fire pot, and the over-sized boiler-iron combustion chamber will radiate more heat from the same amount of fuel than the ordinary construction, particularly the pinched-up combustion chamber of the average warm-air heater. As the heat is carried down the diving flues, around the horseshoe radiator, and up the flue at back, there is a longer and more powerful radiation than is possible with the horizontal fire travel of the standard heater. Notice the tremendous amount of radiation assured by trapping the heat between the dome and horseshoe radiator. The whole combustion chamber is put under pressure. This greater efficiency, with the same amount of fuel, insures an increased amount of heat being radiated into the casing, and less up the chimney.

The fourth way of saving fuel, is accomplished by the Round Oak automatic humidifying system. Not only is humid air much more healthful than dried-out air, but health authorities agree that 68 degrees, with proper humidity, is quite as comfortable as 75 degrees of dried heat. It logically follows that the saving made possible by the Round Oak humidifying device, which would otherwise be required to raise the temperature these eight degrees, represents a material saving in fuel and the conservation of health.

Now, when we can save you fuel in each of these ways, every day that you have a fire in your heater, and when you consider that you buy a heater only once, while you use fuel every day you have a fire in it, certainly the heater that eventually saves, is a better investment than the lighter and smaller one that costs a little less to buy, but much more than this difference to operate.

When the Round Oak will save you money in each of these four ways named, and when with its greater weight it will outlast two or three of the lighter heaters, why buy trouble when you can buy satisfaction?

Notice in the interesting pages to follow that the construction of our heating system substantiates all of these claims. Examine carefully all other available systems, for *you* are to judge.

Yet this vital proof, while perhaps sufficient to determine your choice, will be backed by further evidence.

What Others Say

W. F. White, Walton, N. Y.

"About seven years ago I purchased a Round Oak Heating System and installed it in my home. It has given perfect satisfaction in every way. It is a powerful heater and yet economical in fuel. I have used all grades of coal from pica to furnace, with good results.

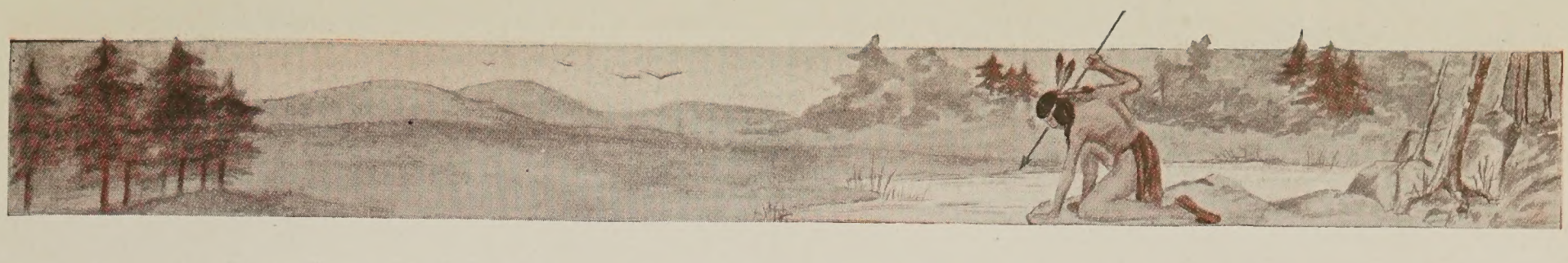
"I would not exchange it for any other heating system I have ever seen.

"My house has 14 rooms, all of which can be heated with ease. Even in the coldest weather the drafts are closed most of the time. I regard warm air, when properly installed, superior to steam or hot water.

"Your heater, when a sufficiently large one is used, enables one to keep a very uniform temperature, both day and night, and the location of the water pan insures moist air in the rooms, which, with the good ventilation afforded by the outside air pipes, makes it summer all the time."

Durability

Wherever extra-hard usage comes, such as the ash pit, fire pot, main top, etc., the metal used is pure, blended Michigan and Southern silvery iron, famous for its strength and durability. This superior mix-



ture is used by Makers of Good Goods Only. The detailed description of the Round Oak Moistair Heating System explains to you, piece by piece, permanent durability.

We invite your attention to one other factor, which completes the proof.

Where opportunity permits, in view of increased radiation, you will discover that copper-fused boiler iron, *extra-thick,* is employed.

These two metals are always joined *gas-tight for life,* like the body of the good old Round Oak stove.

So you find here a happy union of service and *positive and permanent durability.* Isn't this exactly as you would have it?

Convenience

One Regulator for All Fuels

Chain Plate Draft Regulator

Gives Perfect Control of Heater at All Times

In practice there is only one draft to operate. The ash-pit or stimulating draft, and the check draft located in the cast pipe collar, are connected with the chain regulator, illustrated herewith, and are easily operated from the room above.

The direct-draft damper, located in the main top and illustrated on page 3, is regulated by a handle extending through to the front of the heater, and is used *only* when starting a fire or when putting on fresh fuel. Note the simplicity and convenience of operation. The grates are all operated by gears, and a flat side is always against the fuel. They are easily cleaned from either opening in the ash-pit door.

Nothing complicated in operating this system. A child can run it successfully.

Cleanliness Is Assured

You will presently read the detailed proof of gas-tight construction, also the certainty of the cleanly removal of ashes. No dust, dirt, smoke, gas, or soot possible in the home or basement, where the Round Oak Moistair Heating System is installed. Will you demand this feature in the system you are going to select?

Health, the Biggest Thing of All,

has already been suggested from the foregoing description. Unless the air delivered by your heating system is pure, warm, moist, and ever-changing, free from smoke, gas, and dust, you cannot enjoy perfect health.

The good housewife would justly complain were the household furniture to chip and crack, due to the dryness of the air, or the children grow pale and sickly, or the plants dry up and die. Yet with almost every other system this very condition would exist.

We draw your attention at this time to the article on the inside back cover, which is authentic.

Have you ever noticed the dry surface of the skin, and the parched look characteristic of people living in steam, hot-water, and furnace-heated homes? Do you ever remember of song birds and plants thriving under these conditions?

The reason is plain—they are handicapped by the small percentage of moisture in the air. The air will absorb moisture from all available sources. Under conditions just referred to, the available sources are your body, your children's bodies, plants, and household furnishings.

Could you be healthy, robust, strong, and vigorous under such conditions? Would you be satisfied to have a system installed that is certain to promote such conditions?

You do not guess, or experiment, when your choice is the Round Oak Moistair Heating System.

As will be proved, this system delivers not only pure, warm, ever-changing air, free from dust, gas, and smoke, but an *abundance* of life-giving moisture in the exact quantities required.

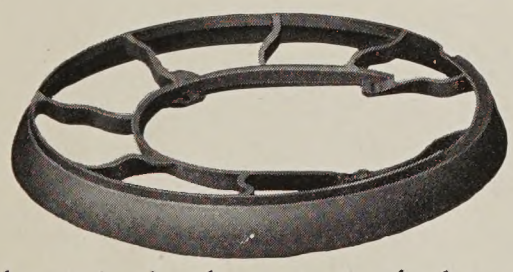
Having, in a general way, presented the claims of the Round Oak Moistair Heating System, let us now describe in detail a few of the more prominent features entering into its construction, that insure these advantages to you. You are sure to find them interesting and *conclusive facts.*

Your final selection, based on this knowledge, will be sound.

You will know just what to look for and demand in the heating system you choose.

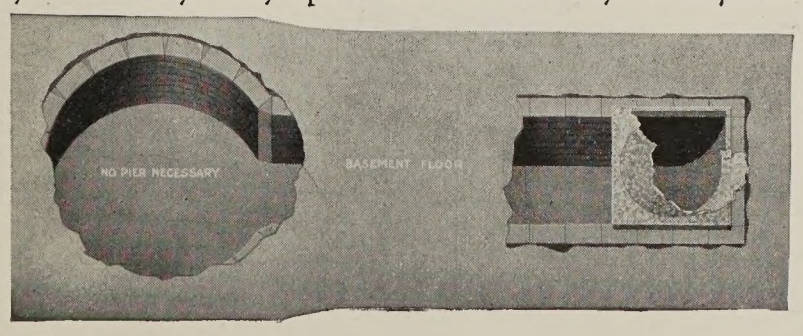
You will know exactly why you demand these certain requisites.

Will These Vital Facts Help You Reach a Favorable Decision?

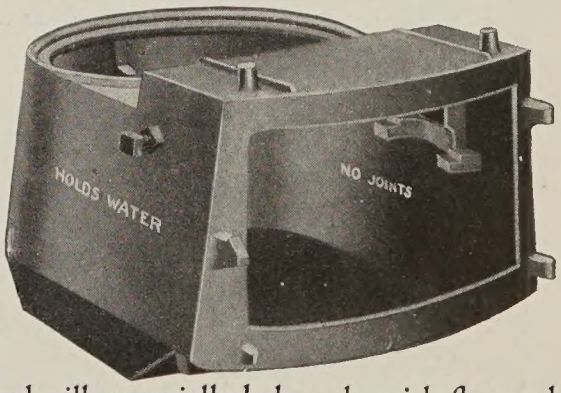


Now, let us begin at the base, and discuss with you each part of the system.

Starting with the foundation—the base ring. Not only is this well adapted to hold in place the casing or metal jacket, but in cases where the heater is placed over a pit, the base is strong enough to support it. No brick pier or other support is necessary, as is the case with other systems. This is a strong feature, as a pier interferes with free circulation of air, and is a positive detriment to the efficiency of any system—a statement you can easily verify upon examination of any other system.

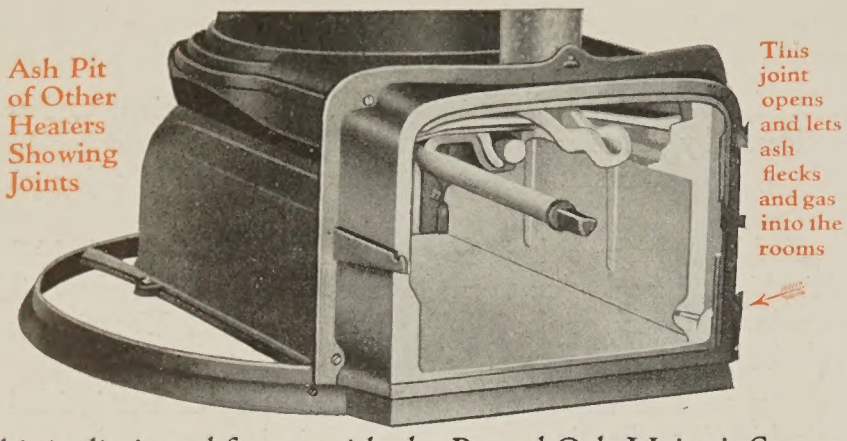


The next factor to be examined is the *ash pit.* The bottom, sides, and doorframe are *cast in one piece.* There is no joint around the doorframe. Notice carefully there is no possibility of any joint opening and allowing air to leak in, thus losing control of the fire. This prevents ash flecks and gas leaking into the casing and up into the rooms.



The man who says that taking ashes out of a heater is a dirty job, does not own a Round Oak Moistair Heating System. A pipe connection is a part of every system, and runs water into this one-piece ash pit, enabling you to take out your ashes as coarse and dustless as sand. Again the evaporation up through the fuel bed will materially help a sluggish flue and dirty fuel.

Compare this construction with any other system. Loss of fire control, ash-laden air in the cellar which permeates the entire house, settling over the furniture and everything else—abominations and loss that you simply *cannot avoid* with the jointed construction in other heaters—



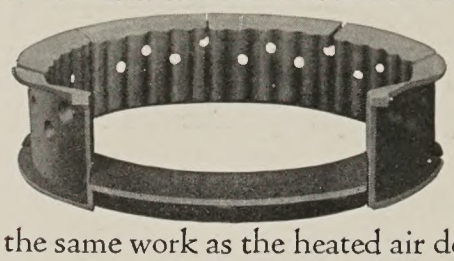
all this is eliminated forever with the Round Oak Moistair System.

The task of cleaning out this system is not a dirty, dusty, mussy job! It's absolutely clean.

The next item—and a tremendously big item when viewed from the *fuel-saving* standpoint—is the *fire pot.* Coal burns a great deal better, deep and narrow, than it does when all spread out. For that reason fire pots in the Round Oak Moistair Heating Systems *average four inches deeper* than the fire pots in ordinary furnaces.

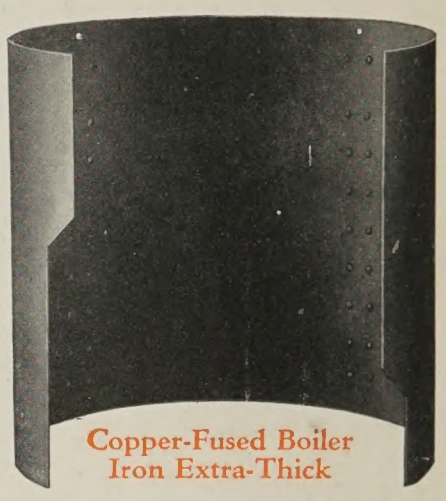
Bear this in mind, for the capacity and efficiency of a heater is not determined by the diameter of the fire pot alone. (See chapter on engineering, page 4.)

Hot-Blast Ring. Above the fire pot is the ring *hot blast,* of same construction as the one that has been a tremendous success in our Round Oak heating stove. The air is taken in at the sides of the door, heated as it travels around behind the sections of hot blast, and comes out of these holes in the hot-blast linings, doing in a more efficient manner the same work as the heated air delivered from a hot-blast tube in what is commonly called a hot-blast stove. Only people who have not made the tests, are inclined to doubt the efficiency of hot-blast construction.



Our experiments show that the hot blast is of great value, and we have letters from users who have burned soft coal a whole winter without having to clean the flue.

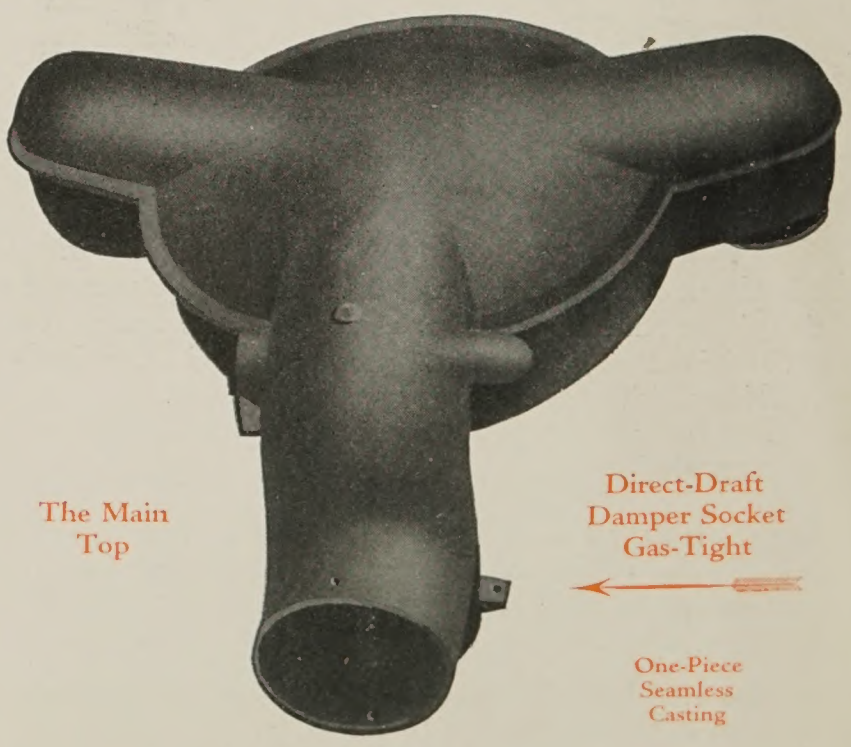
Combustion Chamber—Over-size to top. One of the basic laws of heating demands that the *combustion chamber* instead of tapering toward the top be *full-sized* to the top. Thus is built the combustion chamber of the Round Oak. The reason for this is that, after your fuel is converted into smoke, flame, and gas, these products should have an unrestricted opportunity to radiate their heat into the casing, and deliver it into the rooms. This construction does not force the heat out of the chimney, as is the case with systems using a tapering combustion chamber.



Note also that this chamber is constructed of copper-fused boiler-iron. The metal is an active radiator of heat, and on account of its thickness, chemical properties, and physical construction, will render a lifetime of service.

The *main top is a one-piece casting.* No leakage of gas and smoke from joints. No need of resetting the system after a few seasons of service.

A good example of the Round Oak idea of *permanency* in air-tight and gas-tight construction, is illustrated by the method in which we install the direct damper in the one-piece main top. Instead of having damper axle run right through the dome casting, you will notice that one end

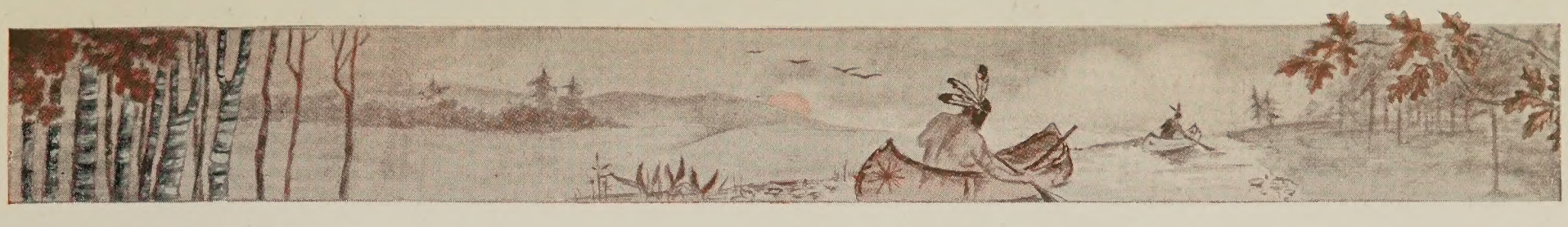


What Others Say

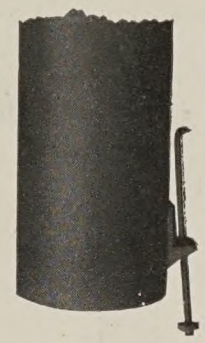
Howard H. Priestley, Princeton, Ill.

"I feel that a concern that 'makes good goods only' deserves the commendation of satisfied users of the product. In 1906 I installed in my house a Number 28 Round Oak Moistair Heater and it has heated my home satisfactorily and economically. Satisfactorily in the quality of warm air produced, owing to the large amount of water evaporated and mixed with the hot air, and thus the degree of humidity is raised and the air is invigorated, and is therefore healthful.

"I know of no other heating system or any kind that produces as satisfactory a degree of humidity. I keep my ash pit full of water so that there is no dust in the cellar when ashes are removed. No ash-dust tracked upstairs to annoy the family. You can emphasize economy, health, convenience, and durability of your heater. Not a cent have I spent for repairs."



of the damper axle runs into a jointless socket, while the other side of damper axle runs through a double collar of asbestos so that it *stays* permanently tight.



The two *descending flues* and the one *ascending flue,* connecting the main top with the horseshoe radiator, are constructed of that durable copper-fused boiler iron. They do not rust out! And they, together with the horseshoe radiator, afford the most efficient fire travel of any heater – for this the Round Oak Moist-air Heating System is famous. These flues become active radiators of heat as the gases are drawn down on the way to chimney and are properly proportioned to secure the maximum results.

Note that they are fitted to the main top and horseshoe radiator, over a tapering slip joint, and bolted to place. No leakage of gas here.

Note also they are acetylene-welded, not riveted. They form a fire travel that is equivalent to *one-piece* and are absolutely gas-tight.

The *reversible cast pipe collar,* outside the casing, is one of the Round Oak features. This cannot burn off and can be adjusted to any one of four directions the installation may demand.

This *horseshoe radiator* is also a one-piece, seamless casting, and completes the fire travel which undoubtedly is the most effective ever built into a heating system. Note the two large and convenient clean outs.

The Horseshoe Radiator

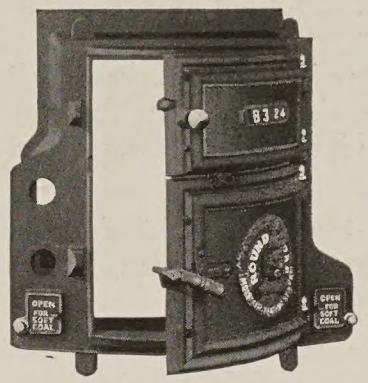
Seamless One-Piece Casting

Clean Outs, Outside the Casing

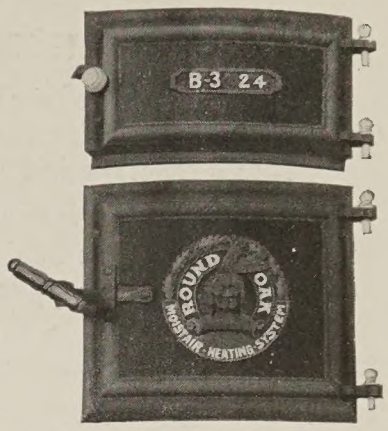
The *feed front* is a one-piece casting securely riveted to the combustion chamber. The casting comes right through the front of heater, and the doorframes are a part of the one-piece extension. No leakage of gas into the casing, or air into the combustion chamber to act as a check.

Compare this with the usual front to which the doorframes are *bolted* – this latter method eventually *gases.*

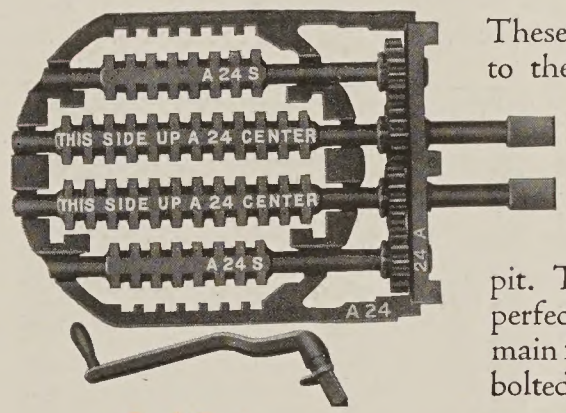
The *feed doors* in the high series (the high series is illustrated on page 12) are extra-large and commodious. When soft coal or wood is used,



Opening shown is for water-back pipes

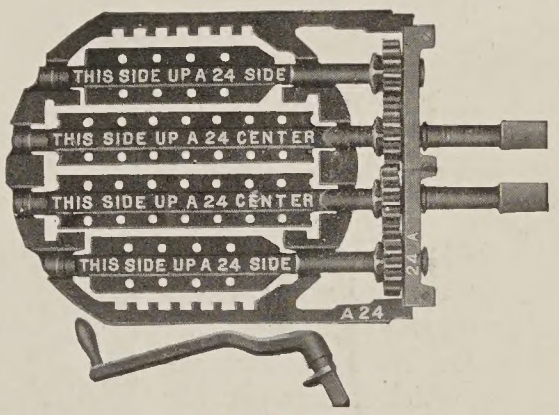


the size of these doors is sure to be appreciated.



Coal Grates

These doors are ground and fitted to the seamless cast joint – not against a bolted doorframe, producing a gas-tight joint. The ash-pit door is also ground and fitted to place against the one-piece ash pit. This is positive assurance of perfect fire control for life. The main front is carefully and strongly bolted to place.



Wood Grates

Too much care cannot be exercised in examining the *grates* of the system you are going to select. Note the triangular grate bars. These are really a three-in-one grate. You have three grate surfaces. These grates rest in a heavy, braced frame, and are supported in the seamless ash pit by a simple yet effective arrangement. See page 5. These grates may be easily and quickly removed at any time by simply loosening two set screws. Compare this with all others. See page 15.

To shake the grates, an opening is provided in ash-pit door, and the special shaker always leaves the grates flat against the fuel after clean-

What Others Say

E. W. Martin, Fremont, Nebr.

"In regard to your inquiry, I want to say that the Round Oak Moistair Heating System installed in my house, gives perfect satisfaction. It does all you promised and more. Other furnace men of this city claimed my house an exceedingly hard one to heat and that it could not be done with hot air alone. I am pleased to say 'they knew not whereof they spoke.' The manner of installing and workmanship are more than satisfactory."

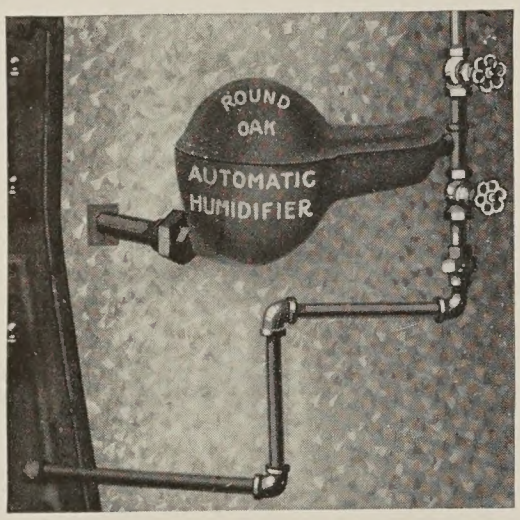
ing the fire. This makes the grates "fool proof." It is impossible to remove shaker until the flat surfaces of grates support the fire.

The Automatic Humidifier

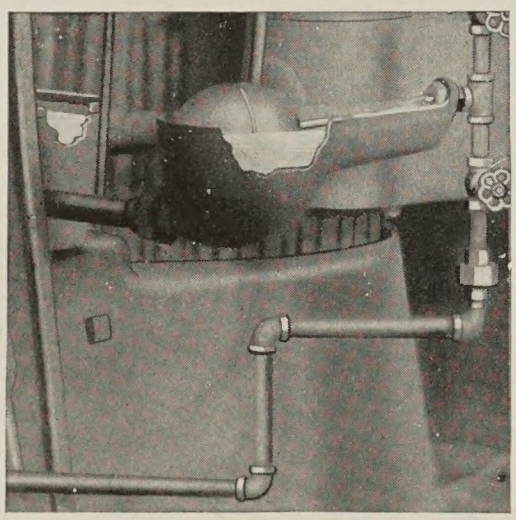
Remember, a certain definite percentage of moisture in the air delivered by any heating system, is essential to health, comfort, and fuel economy. Read, at this time, the important and interesting proof, on the inside of the front and back covers.

With the Round Oak Moistair Heating System, this desirable percentage of moisture is supplied by the unusual water pan, aided by the automatic humidifier.

Examine closely the illustration of the automatic humidifier, (which is a part of each system) and you will clearly see how this ingenious patented improvement keeps the water pan full at all times. Then, if you will turn to page 3, you will notice the location of water pan. It is *not* placed in the casing or at the side of the ash pit, *but* is located *right next* and conforms to *the fire pot.*



Through a series of experiments, the exact size, shape, and position of this humidifying apparatus in the Round Oak Moistair Heating System, have been determined. Its scientific principle assures the continuous and automatic evaporation of a most satisfactory percentage of moisture into the ever-changing warm air circulated by this system. The hotter the fire, the greater the evaporation.



Consider this carefully and, if possible, observe it in actual operation, and you will see that the Round Oak Folks have perfected this arrangement, which assures you not only comfort and cheer, but a marked saving in fuel.

With this desirable improvement, your home will be more comfortable and more healthful at 68 degrees, than it would be at 75 degrees with ordinary heating apparatus.

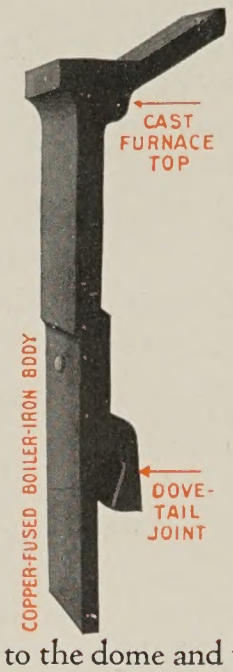
Would you like this perfected improvement in the heating system you are going to buy? Then demand it. It is one more distinctive feature which is a part of every Round Oak Moistair Heating System.

A man in Winnipeg (name on request) used a Round Oak Moistair Heating System for a winter, and was surprised to find that the house was as warm as he wanted it, with the mercury at 63 degrees, when, with the furnace he had used for a number of years previous, he had to have the mercury up to 75 degrees to keep his family comfortable.

The difference was, that the Round Oak Moistair Heating System was evaporating more gallons of water into the atmosphere of his house than the other heater evaporated pints, and 63 degrees of humid air feels as warm as 75 degrees of dry heat. Probably you know that Arizona frequently has days when the mercury goes up to 115 degrees, and people do not suffer, when 95 degrees in humid New York keeps the ambulance busy—it is but one more proof that the greater the humidity in your home, the lower the temperature required for comfort.

Importance of Adjusting and Bracing

Referring to illustration on page 13, you will notice the lip cast on the base ring which holds ash pit in position. This prevents ash pit slipping forward and allowing dust and ashes to enter the casing.



You will also notice on page 13, that two large lugs have been cast on the ash pit. Through these lugs threaded bolts extend and rest on the base ring. By means of these bolts, the heater can be readily lined up, and will remain so indefinitely. Compare this method with the usual one of leveling the heater with cement, which in time crumbles and drops out, allowing other heaters to sag—then gas.

You will note that the fire pot has bolts holding fire pot and combustion chamber to the ash pit. When the ordinary furnace has the slightest explosion in the combustion chamber, it is necessary to repack the joints (very expensive). The Round Oak *stays* tight. The dome joint, where dome or main top joins the boiler-iron body, is a wide lap-joint, and then a dovetail which is packed full of asbestos wicking and cement; then the boiler iron is bolted to the dome and the joint is equivalent to a one-piece construction.

What Others Say

C. E. Small, Kansas City, Mo.

"I put in one of your Moistair Heating Systems at my residence, southeast corner 36th and Holmes Streets, in the summer of 1906 I used it with coal until natural gas was turned on, and since then, with natural gas. It works with both fuels to perfection. I cannot commend it too highly."

E. H. Carrier, Harrisonburg, Va.

"I have used a Round Oak Moistair Heating System, No. 26, for seven years. It is all anyone could wish for. It heats as well as any furnace could, and it is very economical with fuel. It takes about eight tons of soft coal a winter. This heats seven-room house with bath and reception hall.

"If I were in need of another one, it would be a *Round Oak.*"

Wm. Bissett, Springfield, Mo.

"I have used a Round Oak Moistair Heating System *since 1903,* and it has *not cost me a cent for repairs.* For fuel I use coal and wood mixed. I unhesitatingly recommend the Round Oak."

The Casing

There are still a few folks, who believe in the brick-set heater. They have not considered the excessive cost of construction, or that brick absorbs an excessive amount of heat and moisture, and at the same time retards the flow of air because of the rough surface.

The three-ply casing, used in the Round Oak Moistair Heating System, secures ideal results. The inner wall of bright corrugated tin allows a free passage of the heated and humidified air, also bright surfaces deflect the heat rather than absorb it.

Then comes the insulation wall, which prevents the radiation of the heat into the basement.

The outer wall of heavy galvanized iron protects and completes casing.

The method of attaching the casing, of building the deflector or hood, of covering the pipes, and arranging the different runs, all have their important bearing on the efficiency of your installation. All are cared for in the scientific plans supplied free by the Round Oak Engineering Department.

Round Oak heating engineers *know*—they do not guess. Now you have a practical, comprehensive idea of how your heating plant should be constructed; but not even yet do we ask you to decide that this shall be the heating system of your ultimate choice.

The Final Analysis

When you have substantiated each of the foregoing statements *from the heater itself,* then the greater durability, economy, cleanliness, convenience, health, and sanitation of the Round Oak Moistair Heating System will have been proved to your entire satisfaction.

You will know that only clear, hard facts have been presented and proved.

Every angle of comfort, health, and fuel economy has been anticipated and provided for.

The installation, under the direction of the Round Oak Engineering Department, assures the most modern, efficient, and healthful method of home warming. Your particular problem now awaits an intelligent solution.

Let Us Furnish You with a Heating Plan Free!

Without any obligation on your part, we invite you to utilize the service rendered all Round Oak friends and customers by our *Department of Heating Engineers.*

Without obligation, let these heating experts furnish you with a heating plan free. This we gladly furnish you, and with it the cost of the job complete, including heating system and installation. To get this plan, all you need do is answer the questions and send us a sketch of your floor space as provided in the sketch blank in the back of this book—a task easy enough considering the sample sketch shown in the sketch blank. Remember, this helpful service is free—costing you not one penny—putting you under no obligation to us or to anyone else.

Finally, let us impress upon you this fact: The comfort, durability, and efficiency of your heating equipment, depend upon its *foundation*—upon the *heating system itself.*

Realize once and for all—

That this system increases the value of your property more than the amount invested.

That this system, because of increased fire travel, radiating surface, and control, as compared to other systems, will actually save enough fuel to pay, in time, even the amount of your entire investment, as represented in its purchase.

That this system guarantees comfort, helps safeguard health, and renders more than a generation of supreme service.

Then determine that this system and no other shall be your selection.

Thus will you capitalize your best business judgment.

Thus, and only thus, can you enjoy the permanent satisfaction which is derived from the knowledge that you have made a good, sound, permanent business investment, and that in addition you and yours will every year clip those invaluable dividend coupons, comfort, health, vitality, and good cheer. *Now use the free help blank in back of this book.*

What Others Say

Fred Livingston, Sayre, Okla.

"Replying to your kind letter of the 6th instant—to say that I am pleased with the No. 24 Round Oak Moistair Heater, installed in my residence in the summer of 1915, would not begin to express my appreciation of this modern method of heating.

"In the first place, the elimination of dust, dirt, and smoke from the living-rooms, is in itself enough to justify the installation of a plant of this kind, not to mention the comfort derived from the humid atmosphere which the Round Oak Moistair Heater creates in your home.

"Now, remember, this is a very difficult country in which to heat a house by any means; because, when it is cold, we usually have very high winds, and, there being no windbreaks, such as trees, hills, etc., it takes an unusually large amount of fuel—much more than in a section where there is some timber to break the force of the wind. We burn slack, and it costs about $5.00 a ton. By wetting this, we get excellent results Our fuel bill last winter was $42.00.

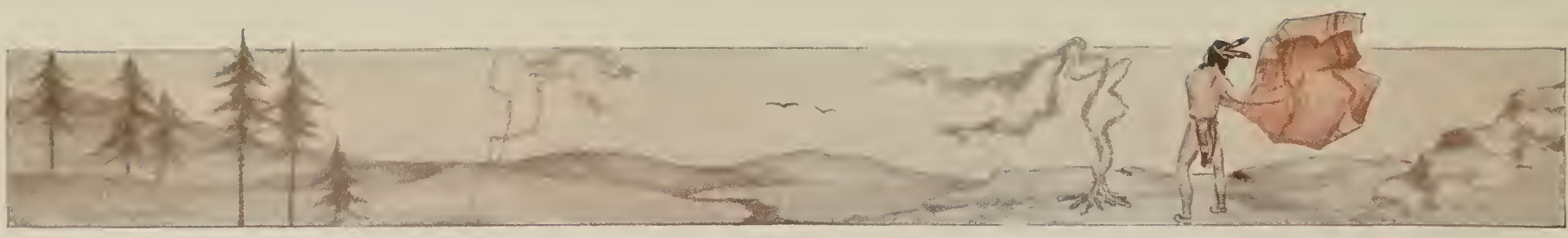
"I never tire of talking Moistair Heater to my friends. At any time that I can be of service, command."

P. W. Schock, Blue Springs, Nebr.

"I have used one of your Round Oak Moistair Heating Systems for fourteen years, and am satisfied with it in every particular. Have never had to replace any grates and the heater is in fine condition to-day; nor have I replaced any of the fire box, and have never been bothered with any smoke, dust, or gas. Could recommend it to anybody in need of a heater."

August Rasmas, Conrad, Ia.

"I am pleased with the Round Oak Moistair Heating System bought of your agent. It is a powerful heater, a great saver of fuel, and can be *controlled just like a Round Oak Stove.*"



Round Oak Moistair Combination Heater

Round Oak Moistair Combination Heater provides pure, warm, moist, ever-changing air and hot-water heat.

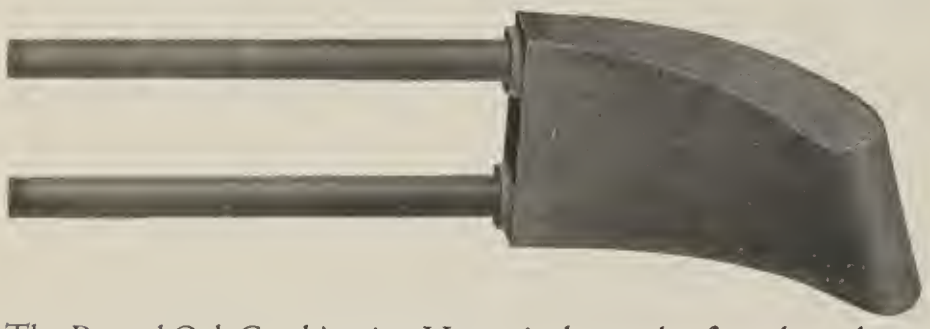
This combination, as illustrated on opposite page, solves the problem of heating isolated rooms impossible or inconvenient to reach with warm-air methods. It is a tried and proved success.

Combination Systems

The Round Oak Heater in combination with hot-water heater or water back, according to conditions, is designed for the purpose of heating water, either for circulation through radiators, in order to heat isolated rooms, or for heating water in a tank for domestic use.

It is so constructed that it does not lessen the size of the fuel-door openings, or diminish the capacity of the fire pot, consequently combustion is in no way retarded, and a Round Oak Moistair Heating System, supplied with the combination, is not only efficient as a dispenser of warm air, but has the added value of a high-class water heater at the same time.

The use of a hot-water combination in a heater is sometimes necessary, when certain rooms are situated so far from the heater that warm air cannot be successfully carried the required distance. Wherever such conditions exist, it is well to place in the heater our hot-water combination, and heat the room or rooms thus remote by hot-water circulation. One or more radiators located in the apartments to be heated will, when properly placed, do the work required, quickly and well.



The Round Oak Combination Heater is the result of much study and experiment, and is in keeping with the high grade of heating apparatus produced by the Round Oak Folks. This combination is constructed with the idea of adjustment to the work required of it, as it will heat from one to four rooms of ordinary size, and its cost varies with the number of rooms to be heated.

For heating water in large tanks for domestic purposes, this heater has no equal. It can be easily attached, and has a capacity of 60 gallons to 250 gallons per hour. For ordinary domestic use, the water back has ample capacity. Should your particular case require a combination system, full and complete details will be given free, by the Round Oak Engineering Department on receipt of blue print or sketch.

What Others Say

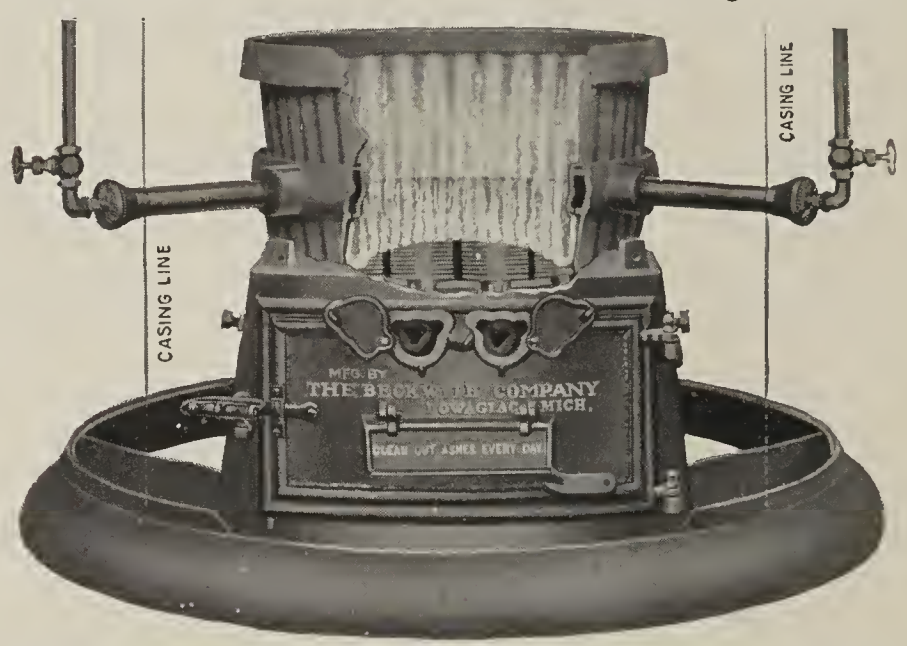
"In reply to yours of recent date will say that I have had fine success with the Round Oak Moistair Heating System purchased of you. This winter I heated eight rooms with a steady even heat with less expense than previous winters trying to heat three rooms with a base burner.

"The work of your furnace men is *the very best,* and I am entirely satisfied with the Round Oak Moistair Heating System and the way you installed it."

Round Oak Heater with Natural-Gas Ring

Owing to its principle of construction, the Round Oak Moistair Heating System is a most powerful radiator of heat from a very economical amount of natural gas.

Thus equipped, the Round Oak Heater will burn, in addition to gas, hard or soft coal, coke, and wood, without any change whatsoever,



making it the most desirable and adaptable construction of its kind, especially when natural gas fails—usually in severest weather of winter. When natural gas is the fuel, shaker holes in the ash-pit door must be left open.

THE BECKWITH COMPANY

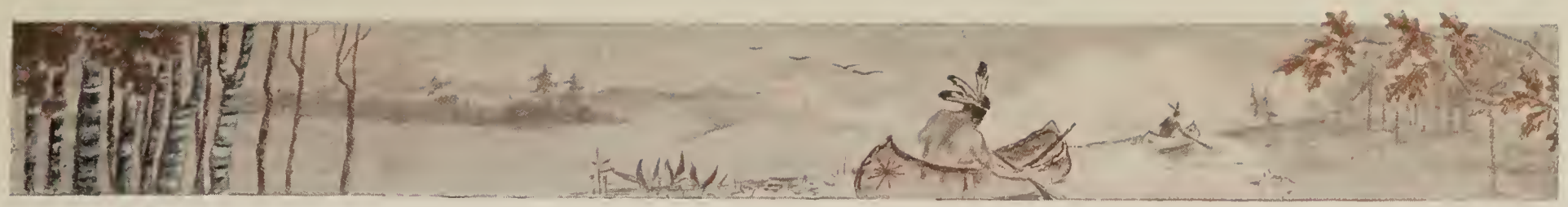
Round Oak Folks Dowagiac, Mich.

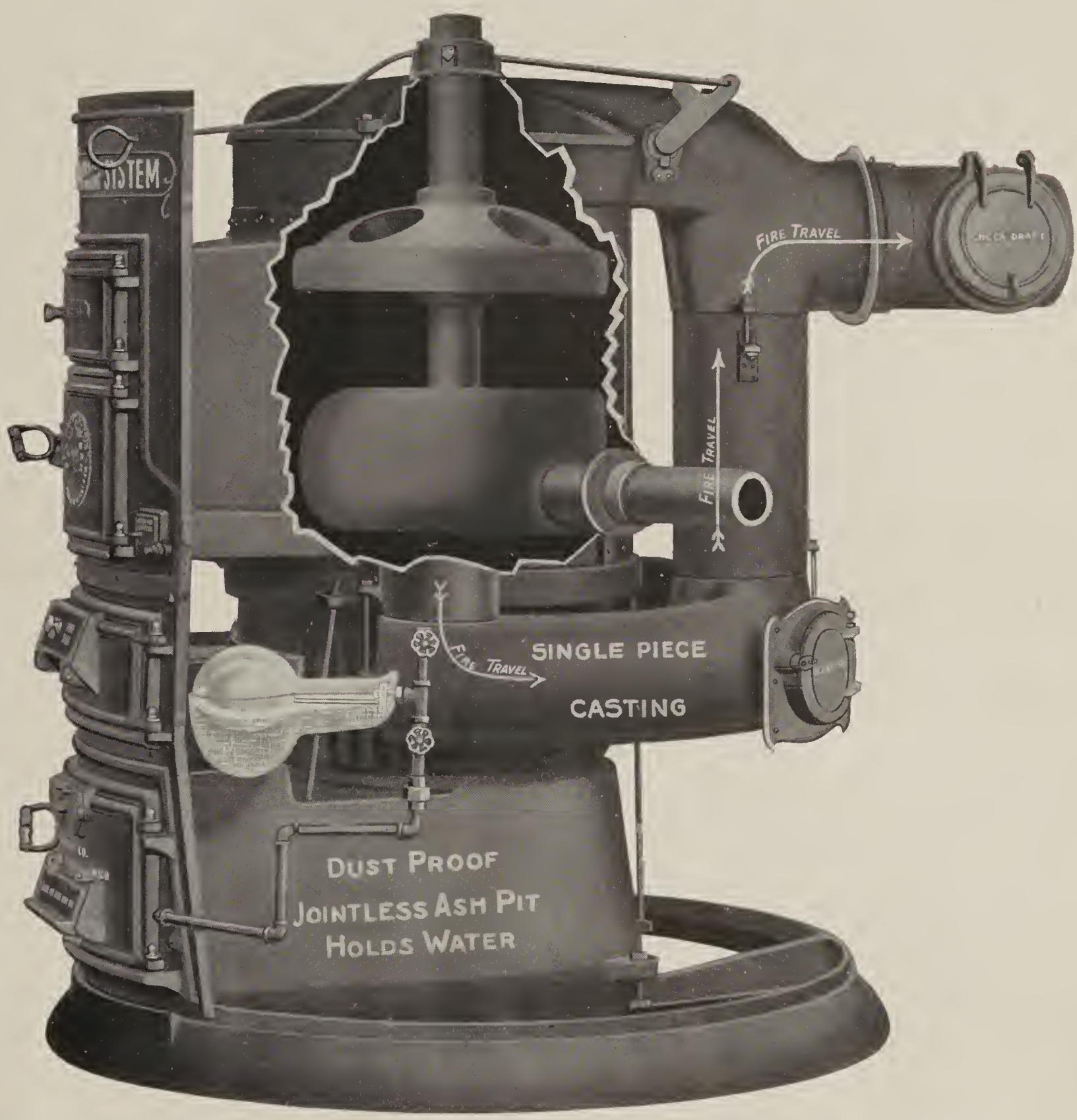
Weights and Dimensions of Regular Series

No.	Shipping Weight Heater and Casing	Weight of Heater Only Lbs.	Height of Castings Ft.	Height of Castings In.	Diam. of Fire Pot	Depth of Fire Pot	Diam. of Casing	Height of Casing Ft.	Height of Casing In.	Height to Cone Top Inches	Diam. of Smoke Pipe Inches
44	1490 lbs.	1370	4	10½	18 in.	14 in.	43½ in.	6	1	55¾	8
48	1815 lbs.	1685	5	0	20 in.	15 in.	48 in.	6	2	57	9
51	2080 lbs.	1940	5	½	22 in.	16 in.	51 in.	6	3½	58½	9
54	2350 lbs.	2185	5	4	24 in.	18 in.	54 in.	6	5	60½	9
60	2665 lbs.	2510	5	5½	26 in.	18½ in.	60 in.	6	8	63½	10
65	3000 lbs.	2830	5	7	28 in.	19 in.	65 in.	6	8	63½	10

Weights and Dimensions of Low Series

No.	Shipping Weight Heater and Casing	Weight of Heater Only Lbs.	Height of Castings Ft.	Height of Castings In.	Diam. of Fire Pot	Depth of Fire Pot	Diam. of Casing	Height of Casing Ft.	Height of Casing In.	Height to Cone Top Inches	Diam. of Smoke Pipe Inches
440	1440 lbs.	1325	4	2½	18 in.	14 in.	43½ in.	5	6	48½	8
480	1760 lbs.	1640	4	4	20 in.	15 in.	48 in.	5	7	50½	9
510	2000 lbs.	1870	4	5	22 in.	16 in.	51 in.	5	8	51½	9
540	2200 lbs.	2125	4	8½	24 in.	18 in.	54 in.	5	10	53½	9
600	2590 lbs.	2460	4	9½	26 in.	18½ in.	60 in.	6	1½	56½	10
650	2875 lbs.	2730	5	0	28 in.	19 in.	65 in.	6	1½	56½	10





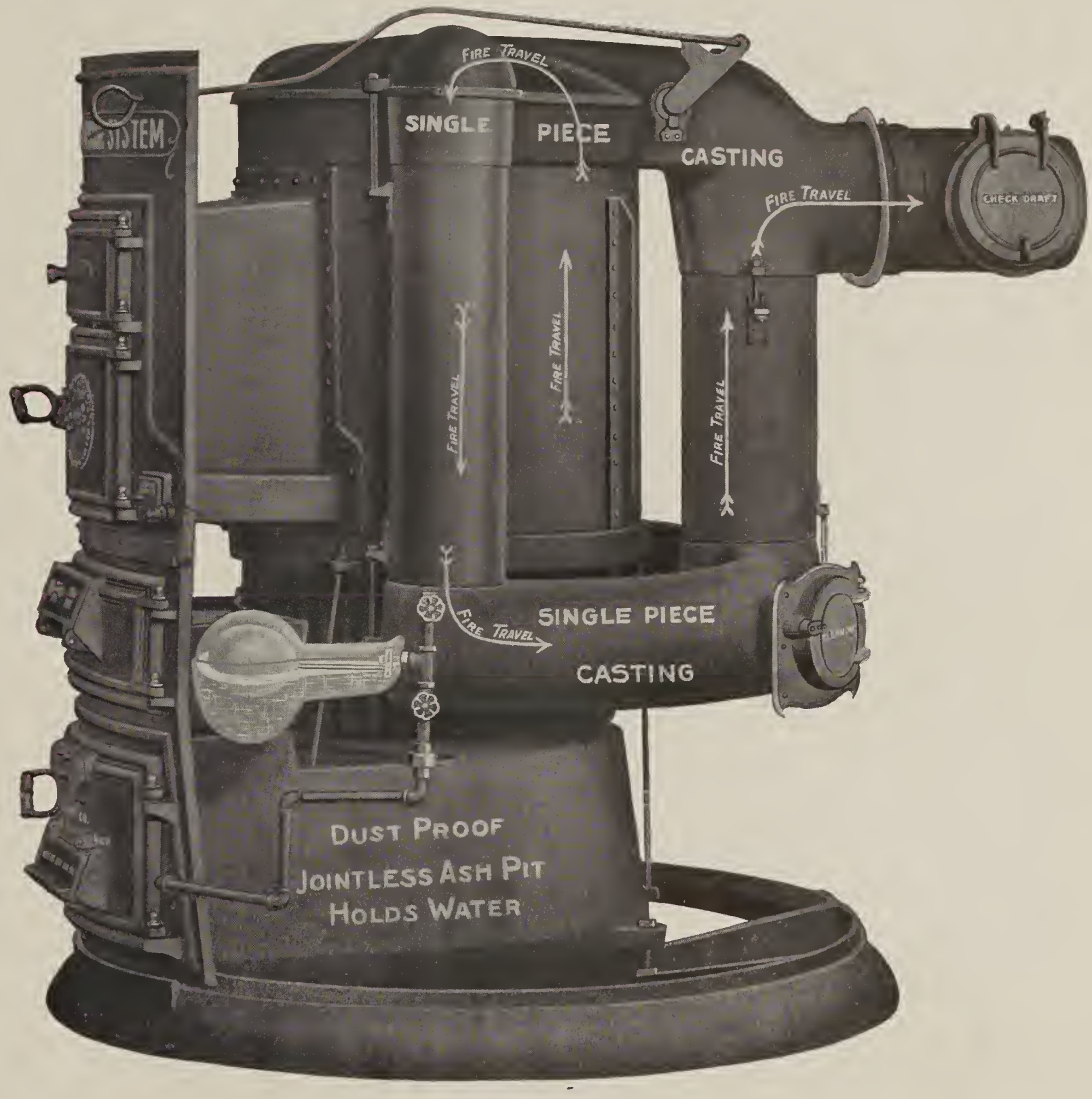
Showing side view of Round Oak regular series with combination hot-water heater in position. Note that the addition of this hot-water attachment does not interfere with the successful operation of this heater

For details see opposite page

Round Oak Moistair Heating System

Regular Series Front View

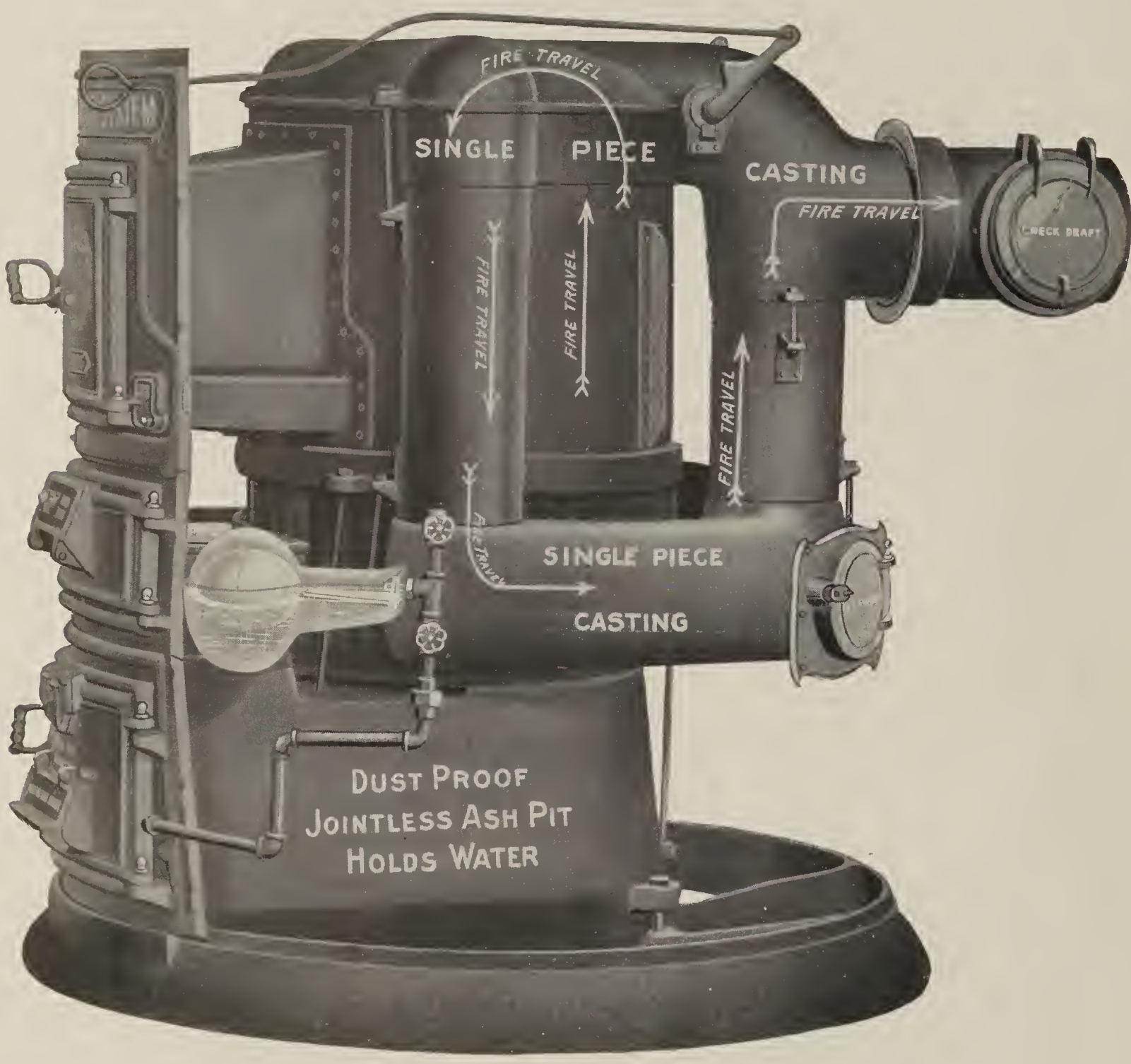
Built like a battleship—fitted like a watch. Burns hard and soft coal, coke, wood, and natural gas
A finished product, complete in every detail



Round Oak Moistair Heating System

Regular Series Side View

Burns coal, coke, wood, and natural gas. Illustration shows arrangement of return flues, and cast horseshoe radiator, with clean-out doors; also check draft on smoke pipe, and water pan. Note single-piece castings. No leakage of smoke, gas, or dust possible. See how quickly and easily the Round Oak can be cleaned



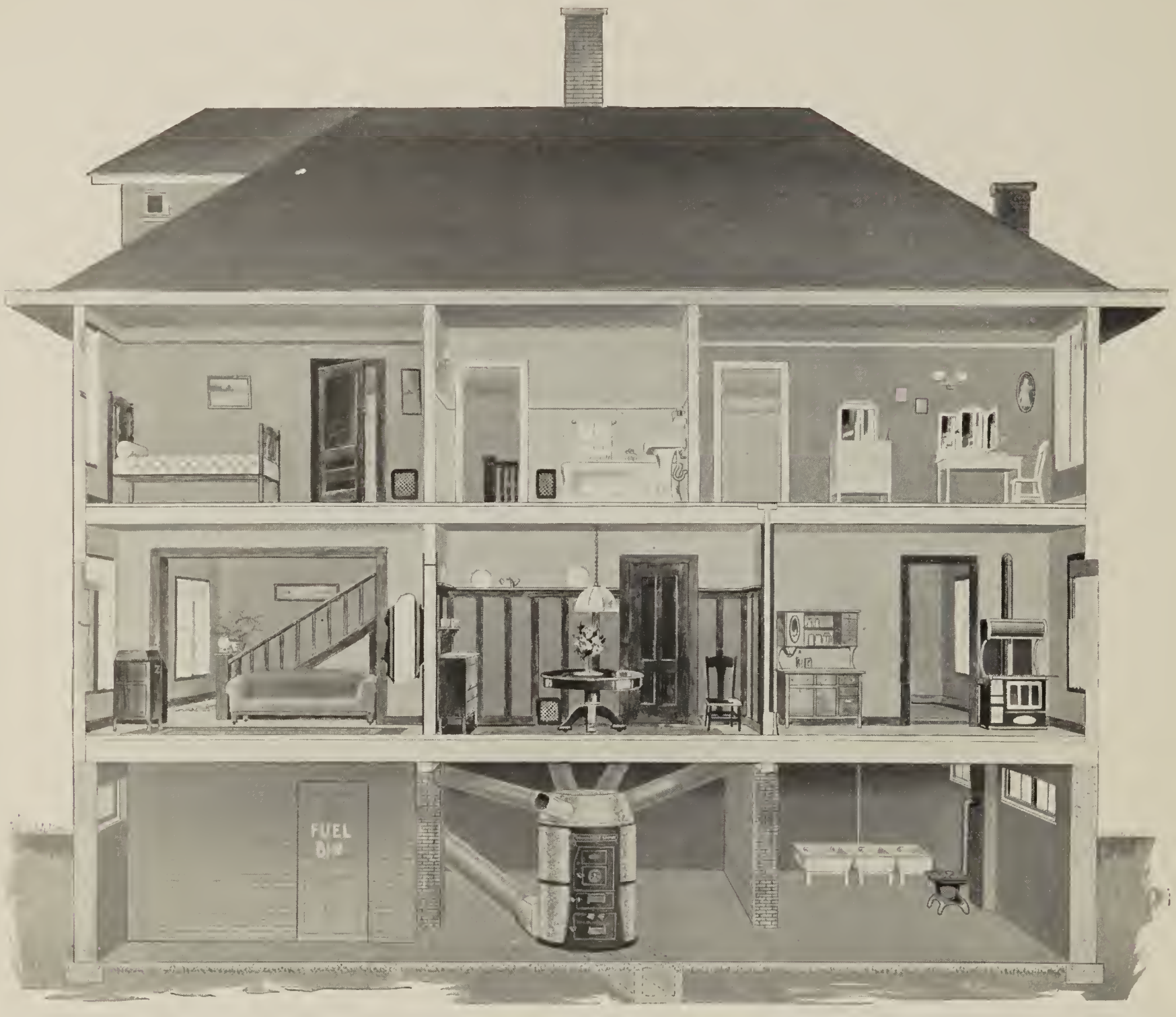
Round Oak Moistair Heating System

Low Series Side View

Burns coal, coke, wood, and natural gas. Illustration shows arrangement of return flues, and cast horseshoe radiator, with clean-out doors; also check draft on smoke pipe, and water pan. Note single-piece castings. No leakage of smoke, gas, or dust possible. See how quickly and easily the Round Oak can be cleaned

Go over every detail carefully. Mentally test every point, then verify them from the heater itself

Illustration shows the hot blast, also the grates part way out. In case of abuse, note how easily grates could be removed. Cutaway section shows clearly the three-wall construction used in building the casing. The extra-large feed-doors, convenient location of the water pan, or humidifier, and extra-large one-piece ash pit, are again emphasized



Sectional view of a home, showing a standard installation of the Round Oak Moistair Heating System. Healthfully heats every room with pure, warm, ever-changing air, free from dust, gas, and smoke—properly humidified

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A. F. Kingsley, M. D., Battle Creek, Mich.

"I am pleased to say hat the No. 26 Round Oak Heater installed in my residence six years ago has given me perfect satisfaction in every way. Since its installation I have added three rooms to the residence, all of which are heated, and *I still have sufficient heating capacity to keep the house comfortable under all conditions of weather.* The furnace is very economical as to fuel consumption and does equally well with every variety of fuel available. I might add that I have burned wood, soft coal, hard coal, gas, and Solvay coke. The evaporating system is excellent and I am able to get a satisfactory humidity in my living rooms at all times.

"The installation was done by your local representatives, Shouldice Bros., and has proved very efficient in every way.

"Were I to install another heating apparatus, I would not know where to look for a better plant than the Round Oak."

Data for Moistair Heating Estimate

Owner's name_____City_____R. F. D._____State_____

Dealer's name_____City_____State_____

Give outside dimensions of the building _____

What is the estimated value of the building?_____Is the building complete or under construction?_____

What direction does it face?_____Of what material is it constructed? (Frame, brick, stone, hollow tile, or cement block) _____Does this building stand alone out in the open, or is it protected by other buildings?_____

Do you use storm doors, or windows?_____Does cellar extend under entire building?_____

If not where is it located?_____Give inside dimensions of furnace chimney flue_____

Is stairway to second floor open or closed?_____Show location on plan

What kind of fuel will be used?_____

Depth of basement below floor where furnace will be placed_____

Remarks_____

_____

_____

Answer *every* question above if for a residence; and additional questions below if for public buildings. It is not advisable to *guess* at the information needed when the future comfort of your family is in question. Inform us fully and correctly and we can assure you an efficient heating system.

Additional Information Required for Church, Store, School, Public Building, Etc.

Are floors level or inclined?_____Is ceiling flat or arched?_____If arched, give heights at center

_____feet_____inches. At sides_____feet_____inches

State whether ceiling is plastered, finished in wood or steel _____

Is there a gallery or balcony projecting over the main or first floor?_____Plaster on walls or on furring?_____

Are walls double or single?_____Show on sketch, location of aisles and platform or pulpit.

Is basement to be heated?_____If so, designate on sketch its size, height, finish, and seating arrangement.

Remarks_____

_____

_____

Mail to

The Beckwith Company, Dowagiac, Michigan

Engineering Department

Read Carefully---Direction

When blue printed plans are not available, sketch an outline of the floor plans of the building to be heated, with either pen or pencil. When drawing your plans, no allowance should be made for thickness of partitions. Give exact inside dimensions of each room on sketch along wall measured. In making your plans, pay no attention to dimensions less than one foot. Show location of outside doors and windows, inside doors, p are not to be heated. *Give name of each room on* floor and basement. Show the positions occupied beams, and any other construction in the building

BASEMENT—Height.....feet,.....inches

FIRST FLOOR—Height...

ANSWER ALL QUES

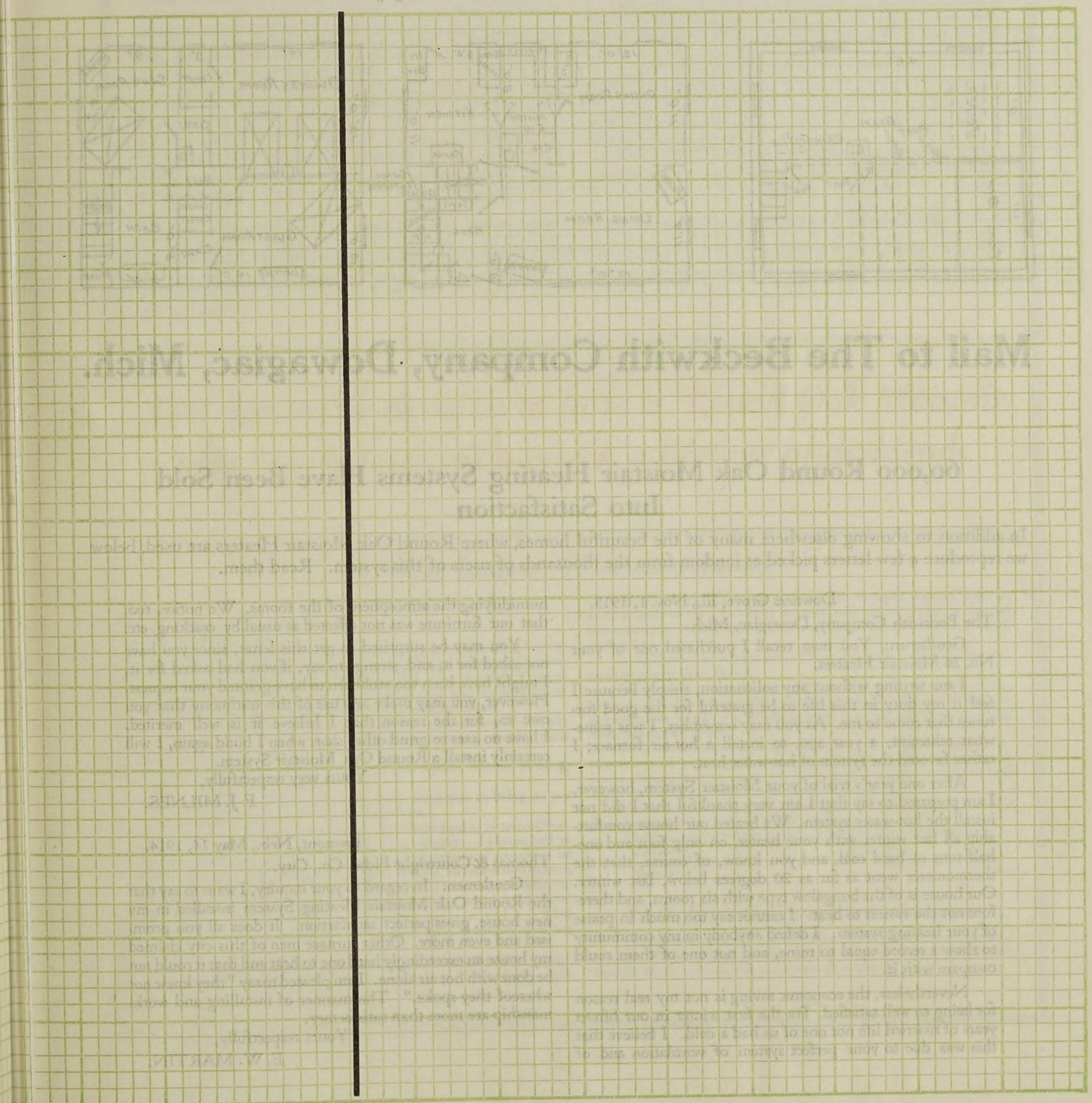
s for Using Sketch Blank

itions, halls and closets, even though these
tch. Indicate the direction of stairs on each
chimneys, fireplaces, piers, large supporting
at may interfere with the installation of the

Round Oak Moistair Heating System.
If the building is a store, indicate the location of counters and show cases.
If the building is a church, theatre, or school, indicate the aisles, seating arrangement, platform or pulpit.

_____feet, _____inches

SECOND FLOOR—Height_____feet,_____inches

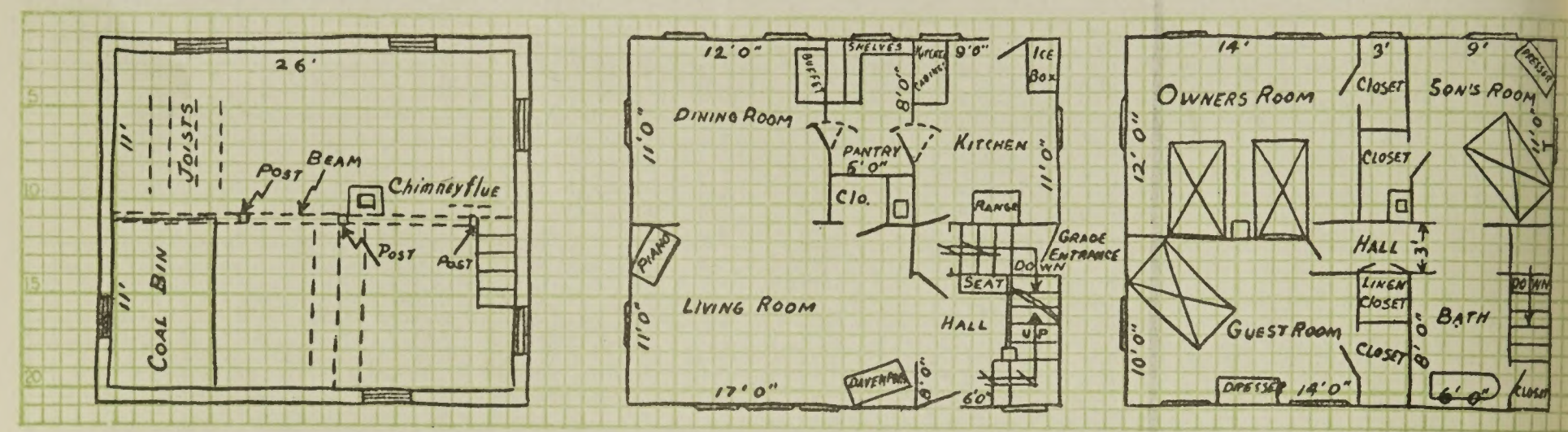


UESTIONS ON PAGE 1

Free Engineering Service

Every member of our Engineering Department has had years of practical experie
By sending us your floor plans, you will get the benefit of this experience in solv
your heating problems. There is no charge for this service nor does it obligate you
any manner.

How your sketch should appear



Mail to The Beckwith Company, Dowagiac, Mich.

60,000 Round Oak Moistair Heating Systems Have Been Sold Into Satisfaction

In addition to showing elsewhere many of the beautiful homes, where Round Oak Moistair Heaters are used, below we reproduce a few letters picked at random from the thousands of users of this system. Read them.

Downers Grove, Ill., Nov. 1, 1915.

The Beckwith Company, Dowagiac, Mich.

Gentlemen: You may recall I purchased one of your No. 26 Moistair Heaters.

I am writing without any solicitation, simply because I feel it my duty in this life to be grateful for the good fortunes that come to me. As you may remember, I was somewhat reluctant, a year ago, to install a hot-air furnace; I rather favored the system of hot-water heat.

After one year's trial of your Moistair System, however, I am prepared to say that I am very thankful that I did not install the hot-water system. We heated our house comfortably all last winter with your heater, on only four and one-half tons of hard coal, and you know, of course, that the thermometer went as far as 20 degrees below, last winter. Our house is of the bungalow type with six rooms, and therefore not the easiest to heat. I cannot say too much in praise of your heating system. I defied anybody in my community to show a record equal to mine, and not one of them could compare with it.

Nevertheless, the economic saving is not my real reason for being so well satisfied. For the first winter in our fifteen years of married life not one of us had a cold. I believe that this was due to your perfect system of ventilation and of humidifying the atmosphere of the rooms. We notice, too, that our furniture was not affected as usual by cracking, etc.

You may be surprised to get this letter, since you have not asked for it, and, strange to say, if you had asked for it, I might have been too stubborn to have granted your request. However, you may make any use of this testimony that you care to, for the reason that I believe it is well merited. I have no axes to grind other than when I build again, I will certainly install a Round Oak Moistair System.

Yours very respectfully,

F J. MILNES.

Fremont, Neb., May 14, 1914.

Thomas & Courtright Hdw. Co., City.

Gentlemen: In regard to your inquiry, I want to say that the Round Oak Moistair Heating System installed in my new house, gives perfect satisfaction. It does all you promised and even more. Other furnace men of this city claimed my house an exceedingly hard one to heat and that it could not be done with hot air alone. I am pleased to say "they knew not whereof they spoke." The manner of installing and workmanship are more than satisfactory.

Yours respectfully,

E. W. MARTIN.

Proper Humidity, Fresh Air, and Health

By Prof. W. E. Watt, Graham School, Chicago, Illinois

(From an address delivered before the Midland Club)

Prof. Watt spoke in part as follows, using the remarkably favorable results obtained in his own school to illustrate and prove the great value and absolute necessity of fresh air and proper humidity.

"Mr. President and Gentlemen:

"Hot, dry air at 72 degrees in a room, may cause to the occupant a chilly, uncomfortable feeling, while the same room at a temperature of 62 degrees, with proper humidity and plenty of fresh air, will be pleasanter and more healthful; besides, there is fuel economy.

"People shut themselves up in steam-heated flats, and it makes them nervous and irritable. One of the most common results from steam-heated apartments is nasal catarrh.

"Did you ever notice how the wood in your piano will shrink, and sometimes the instrument will even come apart and often be ruined? Do you know it is because the air in the room is dryer than the kiln in which the lumber used in the construction of your piano was dried, and that is pretty dry—it is dryer than the Desert of Sahara? When a man complains of being all run down, and possibly lays the cause of his ill health to past excesses, he often seizes upon the wrong cause of his illness, and is simply 'steam-heated.' All he needs is fresh air and plenty of it. What he has done was probably not enough to hurt the constitution of a rat, if he had always received the proper amount of fresh air.

"Monkeys confined in our zoos, in the hot, close quarters usually provided for them during cold weather, die from only two causes, either from accident, that is, they sometimes kill each other, or from tuberculosis.

"A short time ago Dr. Evans, health commissioner of Chicago, investigated this matter, and concluded what these animals needed to preserve life was fresh air the year round, and at his suggestion, but with considerable misgivings, the hot, steam-heated, poorly-ventilated winter quarters were abandoned, and since this change they are no longer dying from consumption.

"You would die if shut up in the same manner, but you have an advantage over the poor monkeys, for after standing it as long as you can, you then go out and revive yourself with fresh air."

The experiments of our engineering department bear evidence to the testimony of Prof. Watt. With the Round Oak Moistair Heating System installed the Round Oak way, *you are certain of an abundance of warm, moist, ever-changing air, free from dust, smoke, and gas*—thus safeguarding health, vitality, and comfort.

Your favorable decision to have a Round Oak Moistair Heating System will pay you a lifetime of dividends

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More Letters of Commendation

Winnipeg, Can., Jan. 9,

J. C. Wilson, 155 Lombard Street,
Winnipeg, Canada.

Dear Sir: I had you put a Round Oak Moistair Heating System in my new house in the fall of 1914, having had the layout made in my office. It was arranged that all rooms would have not less than six air changes an hour, and that all rooms have cold- and hot-air ducts of equal size, and in proportion to the heat loss of these rooms.

The heater is placed in the center of the basement over a brick pit; the cold-air ducts, five in number, connect with this pit, and the pit is drained to the catch basin.

The house is bungalow design 32 feet square, with no building closer than 200 feet, at present.

The heater is listed as a No. 26, and I chose this as being 40 per cent. larger than ordinarily used in eastern cities.

From January, 1915, to January, 1917, I have used 13½ tons of fuel. Outside and inside temperature varied 110 degrees. I always had 50 per cent. to 60 per cent. humidity when 70 degrees, and returning air usually 65 degrees, speed about 140 feet a minute, all rooms well heated, and the cellar not over 52 degrees at any time. There is no covering on the body of the heater or pipes. I find the water pan, which holds about four gallons, boils out at the rate of one inch an hour, and it is filled three or four times a day—in fact, it is given more attention than the fire.

In cold weather I keep the fire pot filled up to the hot-blast linings. I leave the small holes open when the weather is cold, with the check up, and the ash-pit draft open ⅛ inch. A 12 hours' run will burn 40 to 60 pounds of fuel, and keep an even temperature when 40 degrees below outside. When the weather is mild, and at night, I leave the fuel door open 1¼ inches.

In mild weather (that is zero), I have the fire pot only one-half full, and the ash-pit door closed.

Having had many years' experience with different makes of furnaces, in rented houses, I purchased this Round Oak Moistair Heater on account of its weight and workmanship. I am pleased to say my judgment has proved good.

I wish to make it clear that this house has 32 windows and five outside doors; all are as tight as it is practicable to make them, and the house, though built of wood, has three distinct layers of paper ⅛ inch thick, and ship-lap, wood strapped and plastered.

We have weather that will thoroughly test these conditions, and I have found this house O. K. in the coldest days.

The fires are started Sept. 15, and allowed to go out May 15.

Yours truly,
T. L. ROBERTS.

Consulting
Mechanical and Marine
Engineer.

H. E. Hotchkiss, Courtland, Ala., says:

"I have used several kinds of furnaces, but for efficiency, economy, and ease of regulation, your Round Oak Moistair Heating System is the best of all. It certainly deserves a great sale."

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COLUMBIA UNIVERSITY

The modern, efficient method of home warming

THE ROUND OAK MOISTAIR HEATING SYSTEM

Manufactured by

THE ROUND OAK FOLKS DOWAGIAC -MICH:-